

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (previously presented) A method comprising:
receiving a database statement that
specifies a data manipulation language (DML) operation that modifies data
in one or more columns in a database, and
contains a clause that specifies an aggregate operation to be performed on
a plurality of values associated with the data, wherein each of the
plurality of values are from a separate row; and
in response to receiving the database statement,
performing the DML operation on the one or more columns in the
database,
performing the aggregate operation on the plurality of values, and
returning as a result of the database statement a result of the aggregate
operation.
2. (previously presented) The method of claim 1, wherein the performing of the
aggregate operation is performed while performing the DML operation.
3. (previously presented) The method of claim 1, wherein the modified data includes
values of the data before the DML operation.
4. (previously presented) The method of claim 1, wherein the modified data includes
values of the data after the DML operation.
5. (previously presented) The method of claim 1, wherein the DML operation is an
update of the data.
6. (previously presented) The method of claim 1, wherein the DML operation is a
deletion of the data.

7. (original) The method of claim 1, wherein the receiving is performed by an SQL engine.
8. (original) The method of claim 1, wherein results of the aggregate operation are passed from an SQL engine to a server side stub without passing the data in its entirety.
9. (original) The method of claim 8, wherein results of the aggregate operation are passed from an SQL engine to a client interface without passing the data in its entirety.
10. (original) The method of claim 1, where the database statement is sent from a client interface.
11. (original) The method of claim 1, wherein the database statement contains multiple aggregate operations.
12. (previously presented) The method of claim 11, wherein performing the aggregate operation includes:
 - parsing the database statement;
 - establishing a list of operator trees, each operator tree corresponding to a different aggregate function; and
 - establishing an aggregate function list including structures pointing to work spaces for performing the aggregate functions.
13. (original) The method of claim 1, wherein:
 - the receiving of the database statement is performed via a call interface;
 - the performing of the aggregate operation generates an aggregate value; and
 - the method further includes passing the aggregate value through the call interface without passing the plurality of values.

14. (previously presented) The method of claim 1, wherein:
 - the database statement further contains a return clause that indicates old values associated with the data; and
 - performing the aggregate operation on the plurality of values includes performing the aggregate operation on the old values.
15. (currently amended) A computer-readable medium storing a set of instructions, wherein the computer-readable medium is one of a volatile medium or a non-volatile medium, wherein the set of instructions [[which]], when executed by one or more processors, causes the one or more processors to perform a method including at least:
 - receiving a database statement that
 - specifies a data manipulation language (DML) operation that modifies data in one or more columns in a database, and
 - contains a clause that specifies an aggregate operation to be performed on a plurality of values associated with the data, wherein each of the plurality of values are from a separate row; and
 - in response to receiving the database statement,
 - performing the DML operation on the one or more columns in the database,
 - performing the aggregate operation on the plurality of values, and
 - returning as a result of the database statement a result of the aggregate operation.
16. (previously presented) The computer-readable medium of claim 15, wherein the performing of the aggregate operation is performed while performing the DML operation.
17. (previously presented) The computer-readable medium of claim 15, wherein the modified data includes values of the data before the DML operation.

18. (previously presented) The computer-readable medium of claim 15, wherein the modified data includes values of the data after the DML operation.
19. (previously presented) The computer-readable medium of claim 15, wherein the DML operation is an update of the data.
20. (previously presented) The computer-readable medium of claim 15, wherein the DML operation is a deletion of the data.
21. (cancelled).
22. (previously presented) The computer-readable medium of claim 15, wherein the clause contains multiple aggregate operations.
23. (previously presented) The computer-readable medium of claim 22, wherein performing the aggregate operation includes parsing the database statement; establishing a list of operator trees, each operator tree corresponding to a different aggregate function; and establishing an aggregate function list including structures pointing to work spaces for performing the aggregate functions.
24. (previously presented) The computer-readable medium of claim 15, wherein: the receiving of the database statement is performed via a call interface; the performing of the aggregate operation generates an aggregate value; and the set of instructions includes further instructions which, when executed by the one or more processors, further cause the one or more processors to perform passing the aggregate value through the call interface without passing the plurality of values.

25. (previously presented) The computer-readable medium of claim 15, wherein:
the database statement further contains a return clause that indicates old values
associated with the data; and
performing the aggregate operation on the plurality of values includes performing the
aggregate operation on the old values.